Agt/330/SDR/65/14-15

1st & Final Bill 30-8-14

Original/Duplicate/ Triplicate

Contract Certificate

(For Other Works)

No... ~~First & Final~~ Date : .....

Division: **Dasarahalli** Sub-Division:

Bill Received No 535 Dated 30.8.14 Cash Book Voucher No. ..... Dated.....

Scheduled Doctet No. 14-15 Head of Account.....P 2654.....

Name of work (as per sanctioned estimate) - **Drilling of 4Nos of Borewell and fixing of Pump Motor and necessary accessaries at Shettyhalli and Medarahalli at different Loactions in ward no. 12 in shettyhalli sub-division**

Name of contractor and Full Address ... **KRIDL**.....

Reference to Agreement No.

Certified that the measurements were taken by me on 27.8.14 and recorded in pages..... 244537 550. ..... of measurements Book No 2250/14-15 ...and that the work is satisfactorily executed.

Contractor

Ravi. N.K.

Officer – in – charge of work

EXECUTIVE ENGINEER-2
KRIDL, BBMP DIVISION
Bangalore - 560 010

Certified that the measurements were checked by me on .....27-8-14.....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Accountant II have been actually bought to the site of the work and contactor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal

cm by BR

Sub-Division Officer

If Memorandum of Payment **WORK CODE: 012-14-000038**

		Amount
1.	Total Value of work done or supplies made as per account within	
2.	Deduct amount to be held in reserve being.....percent Rs. ...	
3.	-do- Balance	
4.	Deduct Payments:	
	a) Amount of previous payment as in the Office Cash Book Voucher No. .....Dated.....S.D. No.	EF 2659245 = 2685477 =
	Amount adjusted towards cash advance recovery of	IT 53185 - 53770 -
	b) Payments cost store or other materials supplied.	EST 106370 107419 -
5.	Balance being unpaid value of work done held in reserve	WC - 26592 - 2855 -
6.	Deduct cash advance made on the office Cash Book Voucher No. ..... dated.....less adjustments	CBF - 2659 - 2685 -
7.	Net amount due to or from contractor	FSD - 132962 134274 -
	Unadjusted items 2659245=00	DED - 321768 - 324943. -
8.	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied.	NET 2337477=00

2685477=00
Audited and admitted for Rs.

Passed by Cheque for Rs. 2337477=00

2360534=00 Received Rs. ..... (in words)

Net - 2360534

Contractor Signature

EXECUTIVE ENGINEER-2
KRIDL, BBMP DIVISION
Bangalore - 560 010

324943 & 321768=00 by cash and by adjustment of

by adjustment

Payment as per memorandum

(In final settlement of all demand)

(For use in the office)

Witness:

Accounts Superintendent
B.B.M.P. Dasarahalli Division

Executive Engineer

25/8/14

Stamp

Signature of the Contractor

Date

Paid by me by Cheque No. ..... Dated.....

Cash Rs. ..... Dated.....

Initials of office making payment dated.....

Executive Engineer

Sl No.	Description of item
1	[illegible] Geophysical investigation of site for sinking borewell for supplying drinking water to th [illegible] the hand pump, MWS or P.W.S.S by vertical electrical sounding by adopting govenner or schiberger' [illegible] reconnaissance survey of geological formation, geophysical investigation of existing ground water in th [illegible] and acceptability of the users indicating the location of site, recommended depth of 1.0 mtrs in consolidate [illegible] per seating of casting pipe, depth of drilling required to cover full depth of acquifer proposed to be tappe [illegible] and other information required including transportation and accessories to work site, engaging technical personal an [illegible] etc as per the directions of the Engineer in charge. PRED SR 2012-13 P.47/I.9.4
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burdern upto 20 M. fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimu working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,)
	upto 50.00m depth
	Above 50.00 to 100.00 depth
	Above 100.00 to 150.00 depth
	Above 150.00 to 200.00 depth
	Above 200.00 to 250.00 depth
3	Supply of ISI Mark 175 mm nominal Bore, Plain end Steel casing Pipe - grade of Steel Fe 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI Marking, weighing 25.10kg/mtr. (Inclusive of all taxes and durties). Prices include Collar-medium duty (Material Component P. No. II/I.53)
4	Providing and fixing 250mm dia PVC casing pipe as per direction
5	Providing 175mm dia M.S Casing cap
6	MS Casing Pipe Collars 'C' Class
7	Supply and delivery at site brand new submersible PUMPSET suitable for borewell of 150mm dia and having declared du conditions as detailed below and satisfying performance characteristic for pump and motor as declared by Bureau of Indi Standards. The pump should conform to Indian Specifications as per IS: 8034-1976 (with all its latest ammendments) and shou bear the ISI certification mark IS 8034-1976. The pumpset should consist of bronze impellers discharge: 7500 IPH, Head: 102. mts, 15.00 HP 30 stage
8	Providing laying and jointing of GI pipes conforming to I.S. Specification of approved make with fittings such as collers Ben Elbows Tees Nipples Plugs with cuts thread using white lead and thread for joints wherever necessary as per directions includi all leads and lift etc., complete A grade (Excluding cost of fittings) 50mm dia GI pipe (Rate approved by RDED)
9	Providing and fixing heavy duty collars
10	Supply and drawing 3 core flat sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copp conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheather suitable for working volta upto 1100 volts as per 1x3x4 sqmm of 56 strands 0.3mm dia Group A
11	Supplying and delivery at site brand new /Essen / Lotus sunsines / Adarsh / GK controls best indigenous make combine energy meter - cum- control panel board unit of size 1200x600x300 mm minimum mechanically strong and vermin and water proof. The unit shall have two detachable doors suitable for operation on 3ph, 50 Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door, canopy apron and louvers ventillators shall be provided the combine energy meter cum - control panel board unit suitable for operation on 3ph, 50 Hz, 380/440 AC supply shall be consisted etc., complete T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above 6.50 H to 12.5 HP with star Delta starter

Previous Measurement		Present Measurement			Total Up-to-date		Remarks
Qty	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
		4.00	1938.46	7753.84	4.00	7753.84	
		200.00	315.18	63036.00	200.00	63036.00	
		200.00	412.00	82400.00	200.00	82400.00	
		200.00	458.35	91670.00	200.00	91670.00	
		200.00	484.10	96820.00	200.00	96820.00	
		200.00	560.32	112064.00	200.00	112064.00	
		320.00	1364.75	436720.00	320.00	436720.00	
		72.00	1133.00	81576.00	72.00	81576.00	
		4.00	103.00	412.00	4.00	412.00	
		256.00	154.50	39552.00	256.00	39552.00	
		4.00	75541.17	302164.68	740.00	302164.68	
		1064.00	340.26	362036.64	1064.00	362036.64	
		184.00	159.00	29256.00	184.00	29256.00	
		2304.00	164.29	378512.84	740.00	378512.84	
		4.00	14800.00	59200.00	4.00	59200.00	

Sl. No.	Description of item
12	Supply and fixing with MS cox of 16 SWG suitable for floor/wall mounting, fully weather proof with provision for [illegible] provided with hinged front cover, equipped with tamper proof locing arrangements, with suitable size [illegible] necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finished with approved colour enamelled metal paint etc., complete box of 21600 sq cm and Rs. 0.35
13	Providing and fixing of Clamps set and borewell cap to the pump (as per SPD Rate)
14	Supply and delivery of brand new best make Non-return valve of size 50mm as per IS: 778/84 with latest ammendments with ISI mark BCSR page no. 90 item no. 13.62
15	Supply and delivery of brand new best make Gate wheel of size 50mm as per IS: 778/84 with latest ammendments with ISI mark (Rate approved by RDED) 50mm Gate wheel valve for distributer pipeline
16	Providing and fixing of 50mm G.I. bend to the Motor
17	Providing and fixing of 50mm G.I. Nipple to the Motor
18	Providing and fixing of 50mm G.I. UNION to the Motor
19	Labour Charges for End connection
20	Labour Charges for erections of new/repaired submersible pumpset along with GI pipes (32/50mm) cable(new submersible pumpset if required will be supplied by the department free of cot and released pump set should be handed over to department including transportation(each length = 6.00m
21	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete [illegible] foundation bed etc., complete for basement(PWD SR Electrica 99-2000 Page no. 60, It. No. 15) a) Outdoor type
22	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials wiring complete as required - complete as (PWD SR Electricals Page no. 35/13)
23	Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated sheathed galvanised steel wire/steel tape armoured cable with PVC outer sheating 1.1 KV class (confirming to IS 1554) (As approved by SE (DZ) 2007-08)
24	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., [illegible] sutting road surfaces (PWD SR Electrical 99-2000 P. no. 59, I. No. 11 d)
25	Supplying and fixing Class A GI pipe on pole / wall /drain crossing with necessary clamping arrangements for UG cable [illegible] class 40mm (As per rate approved by SR page no. 69. item no. 15(A)

Sl. No.	Description of item
26	Supplying, fixing, wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 4 mm dia 2.90 mm thick GI pipe 2.5m long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 15cm alround the pipe to complete depth. The connection from the pipe to the conduct etc., is to be established though GI wire of size as per ISI specification 7.3.3 IS 732 using 12mm dia bolts,nuts,wsahers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia
27	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV Class UG cable filled with necessary bitumin insulating compound complete with terminals. clamps. Bolts nuts and washers etc.,
28	Supplying shunt capacitor conforming to IS 2834.3 phase 400/440 volts grade for power factor improvement of rotating machines capacitor in KVAR rating Nos 2 KVAR capacity (PWD Ele. SR 99-2000 P:24, It no. 15(b)
29	Providing and fixing Gun Metal Gate wheel valves confirming to IS Specification of approved make as per direction including all lead and lift etc compelte 50mm dia (p.223/1.5a)
30	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs scerws etc., Size 20x20x2.5 inches
31	KSRB: Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications (Page No. 5, Item No. 2.4)
32	Providing and installing at site of work 63mm (0.662) P.V.C. pipes of 6 KG/cm2 including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe allround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.no. 12, I. NO. 3.4.2.a) b) 63mm 6 KSC/Smtr Borewell surrounding connections
33	Providing and installation at site of work 20mm GI pipes including cost of pipes and specials and labour including lowering in trenches, laying true to line, complete as per direction of engineer in charge for public taps. For Motor/pipeline
34	Refiling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m, including cost of all labour complete as per specifications
35	KPTCL Deposit and Service

Certificate

1 Work done is satisfactory
2 There are no departmental issues made to the contractor
3 The contractor has supplied the materials in good condition

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Assistant Executive Engineer

Previous Measurement		Present Measurement			Total Up-to-date		Remarks
Qty	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
		88000.00	0.34	29911.20	88000.00	29911.20	
		4.00	690.00	2760.00	4.00	2760.00	
		12.00	1696.00	20352.00	12.00	20352.00	
		12.00	1213.70	14564.40	12.00	14564.40	
		12.00	232.14	2785.68	12.00	2785.68	
		12.00	110.56	1326.72	12.00	1326.72	
		12.00	237.12	2845.44	12.00	2845.44	
		4.00	400.00	1600.00	4.00	1600.00	
		208.00	90.64	18853.12	208.00	18853.12	
		4.00	475.00	1900.00	4.00	1900.00	
		4.00	906.40	3625.60	4.00	3625.60	
		120.00	169.95	20394.00	120.00	20394.00	
		120.00	56.65	6798.00	120.00	6798.00	
		12.00	294.58	3534.96	12.00	3534.96	

Previous Measurement		Present Measurement			Total Up-to-date		Remarks
Qty	Cost	Qty	Rate Rs. Ps.	Cost	Qty	Cost	
		4.00	1699.50	6798.00	4.00	6798.00	
		4.00	271.92	1087.68	4.00	1087.68	
		4.00	1350.00	5400.00	4.00	5400.00	
		12.00	1515.80	18189.60	12.00	18189.60	
		4.00	311.58	1246.32	4.00	1246.32	
		110.16	223.66	24638.39	110.16	24638.39	
		272.00	352.98	96010.56	272.00	96010.56	
		48.00	125.00	6000.00	48.00	6000.00	
		146.88 ~~110.16~~	59.36	8719 ~~6539.10~~	146.88 ~~110.16~~	8719 ~~6539.10~~	
		4.00	14500.00	58000.00	4.00	58000.00	
Total				**2498334.52**		**2498334.76**	
					Add 10% KRIDL Charges	**249833**	
					Add 1% Cess	**24983**	
					Grand Total	**2773151.59**	

2417496=00
241749=00
2659245=00
+ GST 26232
26,85,477=00

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮಹದೇಶ್ವರ ನಗರ, ಬೆಂಗಳೂರು